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In this paper we study concurrent, asynchronous processes and functions on them which can be programmed using the (full) unfair or the fair merge operations. The main result is a normal form theorem for these (relatively) "computable process functions" which implies that although they can be very complex when viewed as classical set-functions, they are all "loosely implementable" in the sense of Park [7]. We also announce a variation and a substantial strengthening o ...

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The method of local constraints attempts to describe context-free languages in an apparently context-sensitive form which helps to retain the intuitive insights about the grammatical structure. This form of description, while apparently context-sensitive is, in fact, context-free and allows a program derivation structure to be represented as a tree with additional constraints, thus allowing for the possibility of a correctness proof in the form of Knuthian semantics. A part of ALGOL 60 syntax ha ...

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In view of the fundamental role that functional composition plays in mathematics, it is not surprising that a variety of problems in geometric modeling can be viewed as instances of the following composition problem: given representations for two functions F and G, compute a representation of the function H = F o G. We examine this problem in detail for the case when F and G are given in ei ...

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